## TABLE OF CONTENTS

*Volume 46*

### ARTICLES


AYLOR, DONALD E. and FRANCIS J. FERRANDINO / Dispersion of Spores Released from an Elevated Line Source within a Wheat Canopy 251

CAMPBELL, D. I. / Energy Balance and Transpiration from Tussock Grassland in New Zealand 133

CHOU, SHU-HSIEN and JEFFREY ZIMMERMAN / Bivariate Conditional Sampling of Buoyancy Flux during an Intense Cold-Air Outbreak 93

GRANT, A. L. M. and R. D. WATKINS / Errors in Turbulence Measurements with a Sonic Anemometer 181

JURY, MARK and CHRIS REASON / Extreme Subsidence in the Agulhas-Benguela Air Mass Transition 35

KONDO, JUNSEI and SHIGENORI HAGINOYA / Characteristic Heat Transfer Coefficients near the Ground at Night during Strong Winds 169

KONDRATYEV, K. YA. and V. I. KHVOROSTYANOV / Modelling of Cloud Formation due to Air-Sea Interactions in an Energy-Active Zone 229

LORENZ, R. and C. E. MURPHY Jr. / Dry Deposition of Particles to a Pine Plantation 355

MARYON, R. H. / The Effect of Grid Resolution upon the Numerical Modelling of the Convective Boundary Layer 69

NAOT, O. and Y. MAHRER / Modeling Microclimate Environments: A Verification Study 333

RAO, GANDIKOTA V. and SUAT ERDOGAN / The Atmospheric Heat Source over the Bolivian Plateau for a Mean January 13

RIOPELLE, G. and G. D. STUBLEY / The Influence of Atmospheric Stability on the 'Leipzig' Boundary-Layer Structure 207

RUSSELL, R. D. and E. S. TAKLE / A Moving Grid Finite-Element Model of the Bulk Properties of the Atmospheric Boundary Layer 113

SORBJAN, ZEIGNIEW / Local Similarity Functions Derived from Second-Moment Budgets in the Convective Boundary Layer 1

STROMBERG, I. M., C. S. MILL, T. W. CHOULARTON, and M. W. GALLAGHER / A Case Study of Stably Stratified Airflow over the Pennies Using an Instrumented Glider 153

VERMA, SHASBI B., JOON KIM, and ROBERT J. CLEMENT / Carbon Dioxide, Water Vapor and Sensible Heat Fluxes over a Tallgrass Prairie 53

VERSEGHY, D. L. and D. S. MUNRO / Sensitivity Studies on the Calculation of the Radiation Balance of Urban Surfaces: I. Shortwave Radiation 309

ZILITINKEVICH, S. S. / Velocity Profiles, the Resistance Law and the Dissipation Rate of Mean Flow Kinetic Energy in a Neutrally and Stably Stratified Planetary Boundary Layer 367


### RESEARCH NOTE:


KEDER, J., TH. FOKEN, W. GERSTMANN, and V. SCHINDLER / Measurement of Wind Parameters and Heat Flux with the Sensitron Doppler Sodar 195

SURVEY PAPER:

DRIEDONKS. A. G. M. and P. G. DUYNKERKE / Current Problems in the Stratocumulus-Topped Atmospheric Boundary Layer 275

BOOK REVIEWS:

Bortkovskii, R. S., *Air-Sea Exchange of Heat and Moisture during Storms* (S. D. SMITH) 305
Isemer, Hans-Jorg and Lutz Hasse, *The Bunker Climate Atlas of the North Atlantic Ocean* (STUART D. SMITH) 389
Oke, T. R., *Boundary Layer Climates* (G. D. DJOLOV) 205
Puttock, J. S. (ed.), *Stably Stratified Flow and Dense Gas Dispersion* (G. D. DJOLOV) 307

Editorial Announcement iii, v

Publisher's Note vi

Subject Index 391

*Forthcoming volume 47: special issue in honor of Hans A. Panofsky († 28 February, 1988).*